

### **REMARKS**

Favorable reconsideration of this application as presently amended is respectfully requested. Claims 1-65 are pending. In this Amendment, claims 1, 11, 16, 20, 23, 26, 28, 30, 31, and 46 are amended. Further, a substitute specification (excluding claims) is submitted in order to correct typographical errors of the latin symbols due inaccurate conversion of the symbols from the computer to the printer. Further, the specification is specifically amended at the paragraphs beginning at page 1, line 3; page 6, line 8; page 12, line 10; page 12, line 15; page 16, line 12; and page 17, line 10 of the originally filed application to address matters raised by the Examiner in the Office Action. No new matter is added to the specification or the claims.

Support for the amendment to claim 1 is found throughout the specification and claims. Support for the amendment to claim 16 can be found in claims 17 and 18 and the newly amended paragraph at page 17, line 10 as well as elsewhere in the originally filed specification. Support for the amended paragraph at page 12, line 10 can be found in claims 9 and 10 as well as elsewhere in the specification. Support for amended paragraph at page 17, line 10 can be found in claims 17 and 18 as well as elsewhere in the specification. The remaining amendments to the claims and specification were to merely address objectionable language, to clarify language, and to correct typos; and, accordingly, support for these amendments can be found throughout the specification and claims.

The objection to the specification on pages 1, 6, 12, and 16 and the objection to claim 11 have been obviated by the above amendments to the specification.

The Examiner is thanked for pointing out the specific objectionable language in claims 1, 20, 23, 26, 28, 30, 31 and 46. Claims 1, 20, 23, 26, 28, 30, 31 and 46 have been amended as suggested by the Examiner.

Claims 1-65 are rejected under 35 U.S.C. § 112, second paragraph. The Examiner is thanked for pointing out the specific some of the objectionable language. The claims have been amended to comply with the requirements of 35 U.S.C. § 112, second paragraph

and to more distinctly define the subject matter of the present invention. The amended claims do not reduce the scope of the originally filed claims.

Further, the specification has been amended to more clearly define the invention as set forth in the claims. Particularly, the paragraph starting at page 12, line 10 of the originally filed application, discussed by the Examiner at page 3 of the Office Action, has been amended to clarify that it is the probe or probes of the monitoring system that are calibrated (along with the signal processing unit as originally indicated and further clarified by amendment at the paragraph beginning at page 12, line 15). Further, in response to the Examiner's question—"Would one have to receive calibration data if one ordered only a replacement ultrasound probe for an existing system?"—the answer is yes. The user will receive the calibration file of the new probe to input into the computer system, which will then include the data of the calibration file in converting the phase shift measurement in terms of sound velocity, density, or solute concentration.

The paragraph beginning at page 17, line 10 of the originally filed application was amended to more definitely define the subject matter of claims 17 and 18. Further, applicant would like to note that as it is function of optical detectors and spectrophotometers to induce and measure absorbance and/or reflectance of light, claims 17 and 18 and the newly amended paragraph provide the support for the addition of "measure" to claim 16.

***Listing of Attachments***

The following documents, referenced above, are provided as attachments to this paper:

Attachment 1: Substitute Specification

Attachment 2: Marked Up Version of Specification Showing Changes Made

If the Examiner has any questions or concerns regarding the present response, the Examiner is invited to contact Kimberly O. Snead at 703-563-2043.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance, and favorable action is respectfully solicited.

Respectfully submitted,



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